

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A Laser Scanning Microscope with a non-descanned detection and/or observation beam path, illumination and detection beam paths and a direction of detection, the Laser Scanning Microscope comprising:

~~wherein~~ a beam splitter is provided positioned for separation of the illumination and detection beam paths;

~~path and in the direction of the detection-~~ at least one optical arrangement in the direction of detection for regular transmission of ~~the~~ a detected light; and

~~detected light is provided, whereby~~ a second optical arrangement between the beam splitter and the optical arrangement, ~~an additional optical arrangement is provided~~ for reducing the diameter of ~~the~~ a bundle of the beam to be imaged.

2. (Currently Amended) The Laser Scanning Microscope according to claim 1, whereby the additional wherein the second optical arrangement is a convex lens.

3. (Currently Amended) The Laser Scanning Microscope according to claim 1, whereby the additional wherein the second optical arrangement is embodied as a diffractive optical element (DOE).

4. (Currently Amended) The Laser Scanning Microscope according to claim 1, 2 or 3, whereby the additional wherein the beam splitter is contained within a housing, the second optical

arrangement ~~is~~being mounted immediately at the beam splitter housing in the direction of the detection.

5. (Currently Amended) The Laser Scanning Microscope according to one of the claims 1-4,
~~whereby the additional~~claim 4, wherein the second optical arrangement is integrated in the housing of the beam splitter.

6. (Currently Amended) The Laser Scanning Microscope according to one of the claims 1-5,
~~whereby the additional~~claim 1, wherein the second optical arrangement is replaceable or can be plugged in.

7. (Currently Amended) The Laser Scanning Microscope according to one of the claims 1-6,
~~whereby~~claim 1, wherein a second lens is provided on ~~an~~ another deflecting element or is integrated in the ~~latter,~~deflecting element, singly or in combination with the ~~additional~~second element at the beam splitter.

8. (Currently Amended) The Laser Scanning Microscope according to one of the claims 1-7,
~~with an embodiment comprising~~claim 1, wherein the second optical arrangement comprises a
tilted mirror in ~~an~~ deflecting element in the form of a convex or concave mirror.